AC-DC Power Supplies Enclosed Type





# **FETA-series**



#### Feature

High power density Low profile (Meets 1U height.) High output voltage (FETA7000T-144, FETA7000ST-144) High efficiency Harmonic attenuator (FETA2500BA, 3000BA, 7000ST : Complies with IEC61000-3-2 Class A FETA7000T : Complies with IEC61000-3-12) Complies with SEMI F47 Parallel Operation / Parallel Redundancy Operation Alarm signals, Remote ON / OFF and other functions

#### Safety agency approvals

UL62368-1, C-UL(CSA62368-1), EN62368-1

#### EMI

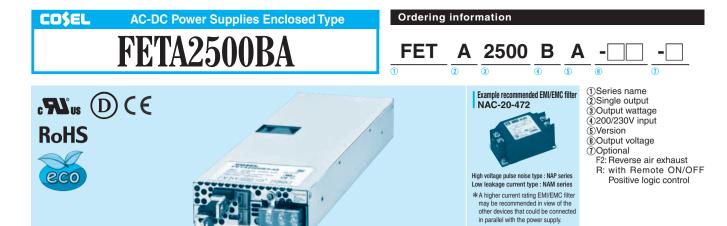
Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A (FETA7000ST : Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A by connecting an external EMI/EMC filter) **3-year warranty** (Refer to Instruction Manual)

#### CE marking

Low voltage Directive RoHS Directive

**EMS Compliance** : EN61204-3, EN61000-6-2

EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11



\*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	FETA2500BA-36	FETA2500BA-48
MAX OUTPUT WATTAGE[W] *1	1980	2496
DC OUTPUT	36V 55A	48V 52A

#### SPECIFICATIONS

	MODEL		FETA2500BA-36	FETA2500BA-48	
	VOLTAGE[V]		AC170 - 264 1 $\phi$ (Output derating is required	at AC170V - 180V. Refer to "Derating")	
	CURRENT[A] ACIN 200V		11.3typ	13.8typ	
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
-			80typ (lo=10%)	83typ (lo=10%)	
			87typ (lo=20%)	89typ (lo=20%)	
NPUT	EFFICIENCY[%]	ACIN 230V	91typ (lo=50%)	92.5typ (lo=50%)	
			90typ (lo=100%)	91.5typ (lo=100%)	
-	POWER FACTOR	ACIN 230V	0.98typ (lo=100%)		
-	INRUSH CURRENT[A]	ACIN 200V *2		ondary inrush current) (More than 10 sec. to re-start)	
	LEAKAGE CURREN	r[mA]	0.85max (ACIN 240V 60Hz, Io=100%, According to IEC62368-1)		
	VOLTAGE[V]		36	48	
-		ACIN 170V-180V	Output derating is required at ACIN 180V or		
	CURRENT[A]	ACIN 180V-264V	55	52	
-	LINE REGULATION		144max	192max	
	LOAD REGULATION		360max	480max	
		0 to +50℃ *3		360max	
	RIPPLE[mVp-p]	-10 to 0℃ *3		480max	
		0 to +50°C *3	ocomax	480max	
UTPUT	RIPPLE NOISE[mVp-p]	-10 to 0°C *3	480max	600max	
		0 to +50℃	360max	480max	
	TEMPERATURE REGULATION[mV]	-10 to +50℃	440max		
		-10 t0 +50 C *4		600max	
	DRIFT[mV] *4 START-UP TIME[s]			192max	
	START-OP TIME[S]		1.7max (ACIN 200V, Io=100%)		
	HOLD-UP TIME[ms] ACIN 200V		10typ (lo=100%)		
			20typ (lo=50%)	00.40.50.00.10	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *5		28.80 - 39.60	38.40 - 52.80 *6	
	OUTPUT VOLTAGE SET	ING[V]	36.00 - 37.44	48.00 - 49.92	
	OVERCURRENT PROT	ECTION	Activate over 105% - 120% of rated current a		
ROTECTION				voltage continuously drops due to overcurrent protection.) *	
IRCUIT AND	OVERVOLTAGE PROTEC	CTION[V] *7	42.00 - 45.00	56.00 - 60.00	
THERS	DC_OK LAMP		LED (Green)		
-	ALARM LAMP		LED (Amber)		
	REMOTE ON/OFF		Provided		
	INPUT-OUTPUT·AUX·I	RC·WRN·PG	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
	OUTPUT·AUX·RC·WRI		AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)		
	OUTPUT-AUX·RC·WRN·PG		AC100V 1minute, Cutoff current = 100mA, DC100V 50M $\Omega$ min (At room temperature)		
	OPERATING TEMP., HUMID.		-10 to +70°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max		
NVIRONMENT	STORAGE TEMP., HUMID.	AND ALTITUDE	-20 to +85°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max		
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 6		
ļ	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each along X, V		
	AGENCY APPROVALS		UL62368-1, C-UL (CSA62368-1), EN62368-1		
		-		Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A	
AFETY AND	CONDUCTED NOISE	-	Complies with FCC Part 15-A, CISPR32-A, E	EN55032-A, VCCI-A	
AFETY AND Ioise regulations		-	Complies with FCC Part 15-A, CISPR32-A, E Complies with IEC61000-3-2 Class A *8		
	CONDUCTED NOISE	ATOR	Complies with FCC Part 15-A, CISPR32-A, E		

AUX output power is not included.

The current of input surge to a built-in noise filter (0.2ms or less) is excluded. Measured by 500MHz oscilloscope. \*2 \*3

Output voltage recovers from protection by shutting down the input voltage and waiting more than 10 seconds then turning on AC input again, or turning off the output voltage by remote control. Please contact us about another class. \*8

Case size contains neither the terminal blocks, connector and screw. To meet the specifications, do not operate over-loaded condition.

A sound may occur from power supply at peak loading.

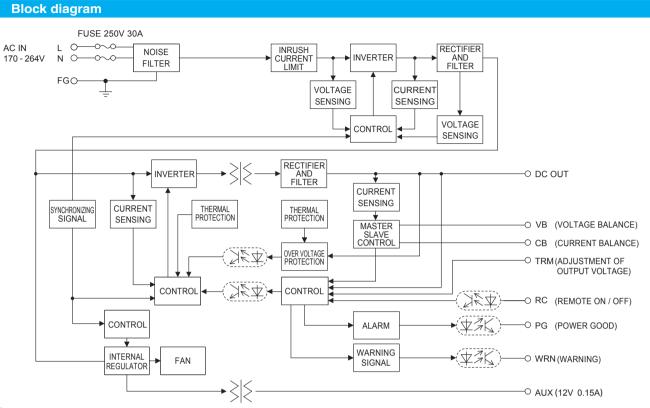
Ripple and ripple noise is measured on measuring board with capacitor of 22µF within 150mm from the output terminal. \*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at  $25\degree$ , with the input voltage held constant at the rated input/output.

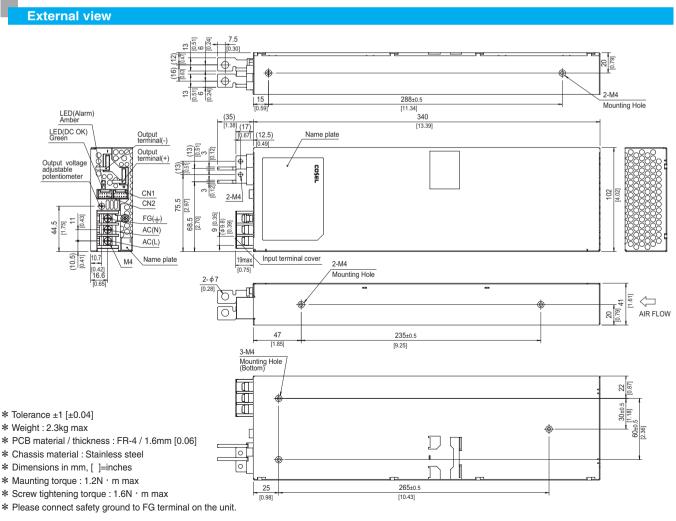
\*5

Can't be used above the rated output current and the rated output power. When the output voltage is adjusted to higher than 49.92V and the load factor is over 70% \*6 of the rated current, if the load current changes quickly (< 200msec), the output voltage drops approximately 5V below the setting voltage.

\*9

FETA2500BA | COŞEL







\*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	FETA3000BA-48
MAX OUTPUT WATTAGE[W] *1	2976
DC OUTPUT	48V 62A

#### SPECIFICATIONS

	MODEL		FETA3000BA-48
	VOLTAGE[V]		AC170 - 264 1 ¢ (Output derating is required at AC170V - 180V. Refer to "Derating")
	CURRENT[A]	ACIN 200V	16.6typ
	FREQUENCY[Hz]		50 / 60 (47 - 63)
			82typ (lo=10%)
			90typ (lo=20%)
INPUT	EFFICIENCY[%]	ACIN 230V	93typ (lo=50%)
			91.5typ (lo=100%)
	POWER FACTOR	ACIN 230V	0.98typ (lo=100%)
	INRUSH CURRENT[A]	ACIN 200V *2	20max / 80max (Primary inrush current /Secondary inrush current) (More than 10 sec. to re-start)
	LEAKAGE CURREN	T[mA]	0.85max (ACIN 240V 60Hz, Io=100%, According to IEC62368-1)
	VOLTAGE[V]	.[]	48
		ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer to "Derating")
	CURRENT[A]	ACIN 180V-264V	
	LINE REGULATION		192max
	LOAD REGULATION		480max
		0 to +50℃ *3	
	RIPPLE[mVp-p]		480max (Vo=15 - 52.8[V]) *4
			600max (Vo=15 - 52.6[V]) *4
OUTPUT	RIPPLE NOISE[mVp-p]		720max (Vo=15 - 52.6[V]) *4
001901			480max
	TEMPERATURE REGULATION[mV]	0 to +50℃	
	-10 to +50°C		600max
			192max 1.7max (ACIN 200V, Io=100%)
	START-UP TIME[s] *5		
	HOLD-UP TIME[ms]	ACIN 200V	10typ (lo=100%)
			20typ (lo=50%)
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *6		38.40 - 52.80
	OUTPUT VOLTAGE SETTING[V]		48.00 - 49.00
	OVERCURRENT PROTECTION		Activate over 105% - 120% of rated current and recovers automatically.
PROTECTION			(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *7
CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V] *7	56.00 - 60.00
OTHERS	DC_OK LAMP		LED (Green)
omeno	ALARM LAMP		LED (Amber)
	REMOTE ON/OFF		Provided
	INPUT-OUTPUT·AUX·	RC·WRN·PG	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)
SOLATION	OUTPUT·AUX·RC·WR	N·PG-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)
	OUTPUT-AUX ·RC · WR	N∙PG	AC100V 1minute, Cutoff current = 100mA, DC100V 50MΩ min (At room temperature)
	OPERATING TEMP., HUMID.	AND ALTITUDE	-10 to +70°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max
INVIRONMENT	STORAGE TEMP., HUMID.	AND ALTITUDE	-20 to +85°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z axis
	AGENCY APPROVAL	S	UL62368-1, C-UL (CSA62368-1), EN62368-1
SAFETY AND	CONDUCTED NOISE		Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A
NOISE REGULATIONS	HARMONIC ATTENU	9	Complies with IEC61000-3-2 Class A *8
	CASE SIZE/WEIGHT		102×41×340mm [4.02×1.61×13.39 inches] (W×H×D) / 2.3kg max
OTHERS	COOLING METHOD		Forced cooling (internal fan)
			Forced cooling (internal laft)

AUX output power is not included. \*1

The current of input surge to a built-in noise filter (0.2ms or less) is excluded. Measured by 500MHz oscilloscope. \*2

\*3

more than 10 seconds then turning on AC input again, or turning off the output voltage by remote control. Please contact us about another class.

Ripple and ripple noise is measured on measuring board with capacitor of 22µF within 150mm from the output terminal. The output voltage should not be adjusted to 15V or less because the ripple and ripple

Case size contains neither the terminal blocks, connector and screw. \*9

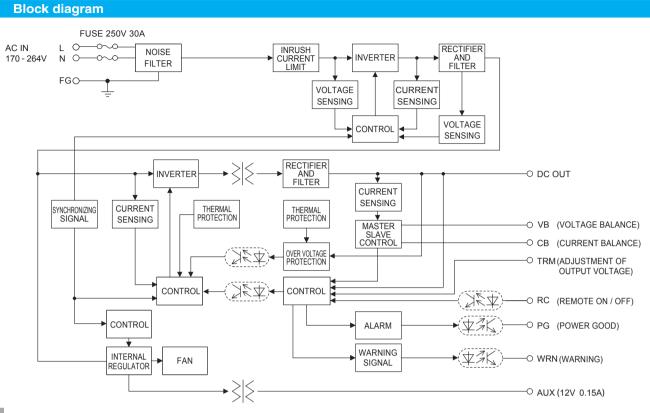
To meet the specifications, do not operate over-loaded condition. A sound may occur from power supply at peak loading.

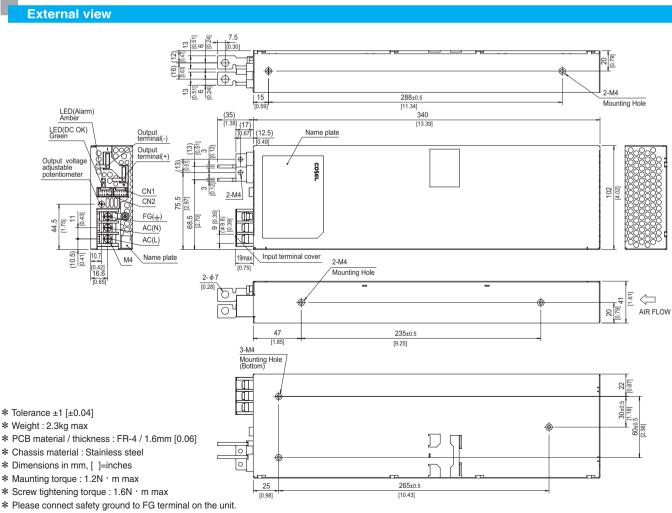
noise would be out of specs and the unit would make the audible noise. \*5 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

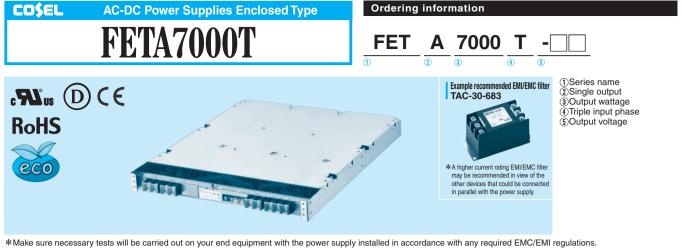
Can't be used above the rated output current and the rated output power. \*6 \*7 Output voltage recovers from protection by shutting down the input voltage and waiting

\*4

FETA3000BA | COŞEL







 MODEL
 FETA7000T-48
 FETA7000T-144

 MAX OUTPUT WATTAGE[W]
 \*1
 7113
 7488

48V 148.2A

#### SPECIFICATIONS

DC OUTPUT

	MODEL		FETA7000T-48	FETA7000T-144
	VOLTAGE[V]		AC170 - 264 3 $\phi$ (Output derating is required at AC170V - 180V. Refer to "Derating")	
	CURRENT[A] ACIN 200V		22.7typ	23.9typ
INPUT	FREQUENCY[Hz]		50 / 60 (47 - 63)	
	EFFICIENCY[%]	ACIN 230V	90.5% (lo=100%)	90.5% (lo=100%)
	POWER FACTOR	ACIN 230V	0.98typ (lo=100%)	
	INRUSH CURRENT[A]	ACIN 200V *2	30max / 60max (Primary inrush current /Secondary inr	rush current) (More than 10 sec. to re-start)
	LEAKAGE CURRENT[mA]		3.0max (ACIN 240V 60Hz, Io=100%, According to IEC	62368-1)
	VOLTAGE[V]		48	144
		ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer	to "Derating")
	CURRENT[A]	ACIN 180V-264V	148.2	52
	LINE REGULATION	mV]	192max	360max
	LOAD REGULATION	[mV]	960max	1800max
		0 to +40℃ *3	360max	720max
	RIPPLE[mVp-p]	-10 to 0°C *3	480max	960max
		0 to +40℃ *3	480max	960max
	RIPPLE NOISE[mVp-p]	-10 to 0°C *3	600max	1200max
		0 to +40℃	480max	2200max
	TEMPERATURE REGULATION[mV]	-10 to +40℃	600max	2800max
	DRIFT[mV] *4		192max	384max
	START-UP TIME[s]		1.7max (ACIN 200V, Io=100%)	
	HOLD-UP TIME[ms] ACIN 200V		10typ (lo=100%)	
			20typ (lo=50%)	
	OUTPUT VOLTAGE ADJUSTM	ENT RANGE[V] *5	28.8 - 52.8 *6	86.4 - 158.4 *7
	OUTPUT VOLTAGE SETTING[V]		47 - 49	141 - 147
			Works over 105% of rating (Recovers automatically, Hiccup overcurrent)	
	OVERCURRENT PROTECTION		(Output voltage shuts down when the output voltage co	
PROTECTION				168 - 180
IRCUIT AND	DC OK LAMP		LED (Green)	
THERS	ALARM LAMP		LED (Amber)	
	REMOTE ON/OFF		Provided	
	INPUT-OUTPUT AUX		AC3,000V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)	
	INPUT-FG		AC2,000V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)	
SOLATION	OUTPUT·AUX·RC·WR	N·PG-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)	
	OUTPUT-AUX RC WR		AC100V 1minute, Cutoff current = 100mA, DC100V 50M $\Omega$ min (At room temperature)	
	OPERATING TEMP., HUMID		-10 to +60°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max	
	STORAGE TEMP., HUMID.		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m	
INVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		$196.1 \text{ m/s}^2$ (20G), 11 ms, once each along X, Y and Z as	
	AGENCY APPROVAL	s	UL62368-1, C-UL (CSA62368-1), EN62368-1	
AFETY AND	CONDUCTED NOISE		Complies with FCC Part15-A, CISPR32-A, EN55032-A	VCCI-A
IOISE REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-12	, , , , , , , , , , , , , , , , , , , ,
	CASE SIZE/WEIGHT		388×43×475mm [15.28×1.69×18.70 inches] (W×F	IXD) / 11kg max
OTHERS		*9		
	COOLING METHOD		Forced cooling (internal fan)	

\*1 AUX output power is not included.

\*2 The current of input surge to a built-in noise filter (0.2ms or less) is excluded.

\*3 Measured by 500MHz oscilloscope. Ripple and ripple noise is measured on measuring board with capacitor of 22µF within

Ripple and ripple noise is measured on measuring board with capacitor of 22µF withir 150mm from the output terminal.

\*4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

\*5 Can't be used above the rated output current and the rated output power.

\*6 When the output voltage is adjusted to higher than 49.92V and the load factor is over 70% of the rated current, if the load current changes quickly (< 200msec), the output voltage drops approximately 5V below the setting voltage.</p>

\*9 Case size contains neither the terminal blocks, connector and screw.

When the output voltage is adjusted to higher than 149.82V and the load factor is over 70%

of the rated current, if the load current changes quickly (<200msec), the output voltage

Output voltage recovers from protection by shutting down the input voltage and waiting

more than 10 seconds then turning on AC input again, or turning off the output voltage by

To meet the specifications, do not operate over-loaded condition.

144V 52A

A sound may occur from power supply at peak loading.

drops approximately 15V below the setting voltage.

\*7

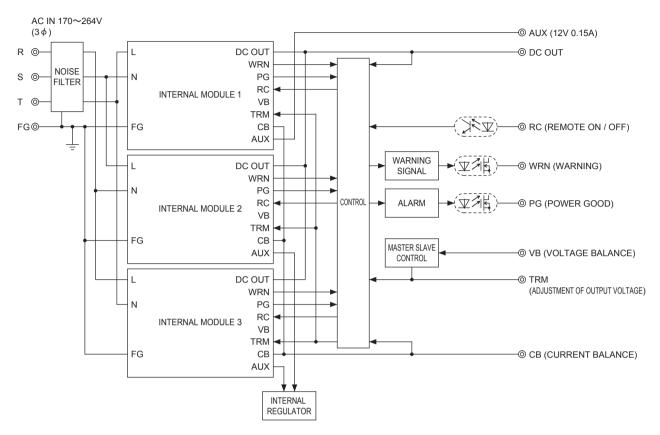
\*8

remote control

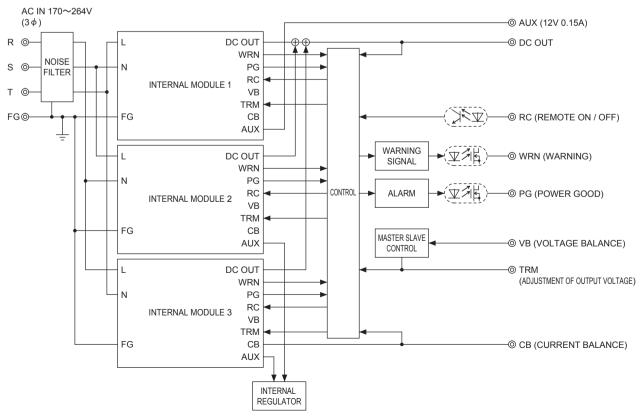
FETA7000T | CO\$EL

#### **Block diagram**

#### ●FETA7000T-48

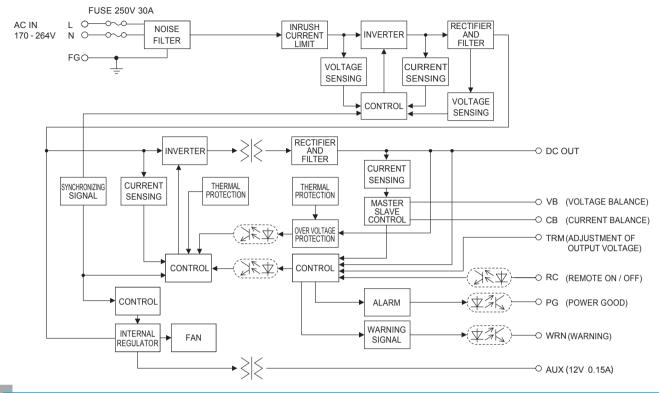


#### ●FETA7000T-144

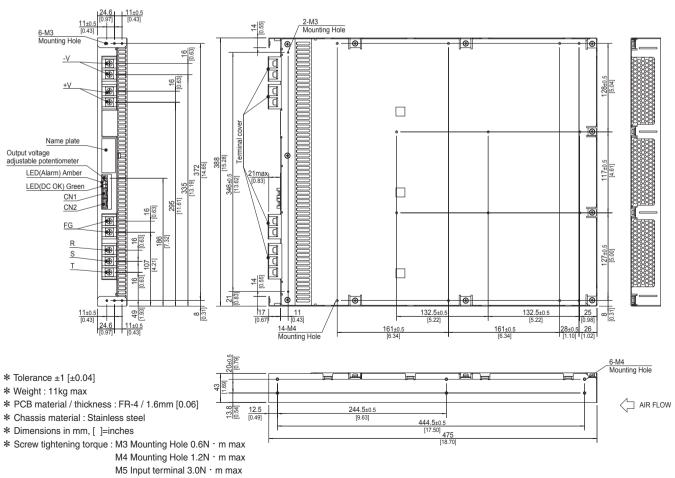


# COȘEL | FETA7000T

#### Block diagram of internal module



External view



\* Please connect safety ground to FG terminal on the unit.

### FETA7000T | CO\$EL



\*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	FETA7000ST-48	FETA7000ST-144
MAX OUTPUT WATTAGE[W] *1 7	7113	7488
DC OUTPUT 4	48V 148.2A	144V 52A

#### **SPECIFICATIONS**

	MODEL		FETA7000ST-48	FETA7000ST-144
	VOLTAGE[V]		AC300 - 480 3 $\phi$ 4-Wire (Output derating is required	at AC300V - 320V. Refer to "Derating")
	CURRENT[A]	ACIN 400V *2	11.4typ	12.0typ
INPUT	FREQUENCY[Hz]		50 / 60 (47 - 63)	- 51
	EFFICIENCY[%]	ACIN 400V	90.5% (lo=100%)	90.5% (lo=100%)
	POWER FACTOR	ACIN 400V	0.98typ (lo=100%)	
	INRUSH CURRENT[A]		40max / 80max (Primary inrush current /Secondary	(inrush current) (More than 10 sec. to re-start)
	LEAKAGE CURREN		5.0max (ACIN 480V 60Hz, Io=100%, According to	
	VOLTAGE[V]		48	144
		ACIN 300V-320V	Output derating is required at ACIN 320V or less (re	
	CURRENT[A]	ACIN 320V-480V	148.2	52
	LINE REGULATION		192max	360max
	LOAD REGULATION		960max	1800max
	LOAD REGULATION	0 to +40℃ *4	360max	720max
	RIPPLE[mVp-p]	-10 to 0℃ *4	480max	960max
		0 to +40℃ *4	480max	960max
OUTPUT	RIPPLE NOISE[mVp-p]	-10 to 0°C *4	600max	1200max
001901			480max	
	TEMPERATURE REGULATION[mV]	0 to +40℃ -10 to +40℃	480max 600max	2200max 2800max
	DDIETI			
	DRIFT[mV]	*5	192max	384max
но	START-UP TIME[s]		1.7max (ACIN 400V, Io=100%)	
	HOLD-UP TIME[ms]	ACIN 400V	10typ (lo=100%)	
			20typ (lo=50%)	
	OUTPUT VOLTAGE ADJUSTM		28.8 - 52.8 *7	86.4 - 158.4 *8
	OUTPUT VOLTAGE SETTING[V]		47 - 49	141 - 147
	OVERCURRENT PROT	ECTION	Works over 105% of rating (Recovers automatically	
PROTECTION				e continuously drops due to overcurrent protection.) *9
CIRCUIT AND	OVERVOLTAGE PROTECTION[V] *9		56 - 60	168 - 180
OTHERS	DC_OK LAMP		LED (Green)	
	ALARM LAMP		LED (Amber)	
	REMOTE ON/OFF		Provided	
	INPUT-OUTPUT·AUX·RC·WRN·PG		AC3,000V 1minute, Cutoff current = 100mA, DC50	
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 100mA, DC50	
	OUTPUT·AUX·RC·WRN·PG-FG		AC500V 1minute, Cutoff current = 100mA, DC500V	
	OUTPUT-AUX·RC·WRN·PG		AC100V 1minute, Cutoff current = 100mA, DC100V	
	OPERATING TEMP., HUMID.		-10 to +60°C (Refer to "Derating"), 20 - 90%RH (No	
ENVIRONMENT	STORAGE TEMP., HUMID.	AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max	
	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z axis	
	AGENCY APPROVAL	LS	UL62368-1, C-UL (CSA62368-1), EN62368-1	
SAFETY AND	CONDUCTED NOISE		Complies with FCC Part15-A, CISPR32-A, EN55032-A, VCCI-A with an external EMI/EMC filter. (refer to	
NOISE REGULATIONS	CONDUCTED NOISE	-	Instruction manual)	
	HARMONIC ATTENU	JATOR	Complies with IEC61000-3-2 Class A *10	
OTHERS	CASE SIZE/WEIGHT	*11	388×43×475mm [15.28×1.69×18.70 inches] (W	XHXD) / 11kg max
OTHERS	COOLING METHOD		Forced cooling (internal fan)	
*2 The cur AC456V load cur	tput power is not included. rrent flowing through the n / 3φ 4-Wire. The flowing cu rent. The maximum flowing c	urrent will vary ac current will be 18A	of the rated curre ses when AC input voltage is over cording to the input voltage and the *8 When the output voltage and the other the output of the rated curre	nt, if the load current changes quickly (< 200msec), the output voltage aly 5V below the setting voltage. voltage is adjusted to higher than 149.82V and the load factor is over 70 int, if the load current changes quickly (<200msec), the output voltage
*4 Measure Ripple a 150mm	from the output terminal.	ed on measuring I	board with capacitor of 22µF within *9 Output voltage remore than 10 sec remote control.	aly 15V below the setting voltage. covers from protection by shutting down the input voltage and waiti onds then turning on AC input again, or turning off the output voltage
*5 Drift is t		an eight hour perio	d after a half-hour warm-up at 25℃, *10 Please contact us	about another class.

Drift is the change in DC output for an eight hour period after a half-hour warm-up at  $25^\circ$ C, with the input voltage held constant at the rated input/output.

Can't be used above the rated output current and the rated output power. When the output voltage is adjusted to higher than 49.92V and the load factor is over 70% \*6 \*7

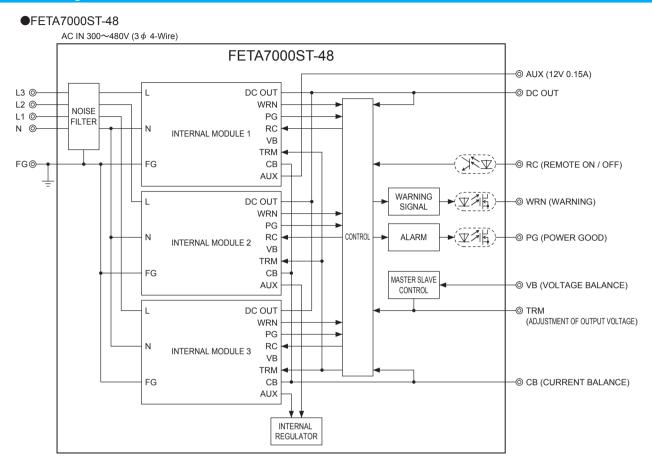
\*11 Case size contains neither the terminal blocks, connector and screw.

To meet the specifications, do not operate over-loaded condition.

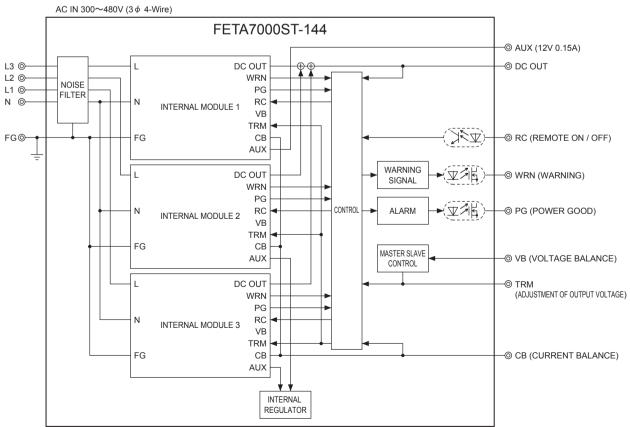
\* A sound may occur from power supply at peak loading.



#### **Block diagram**

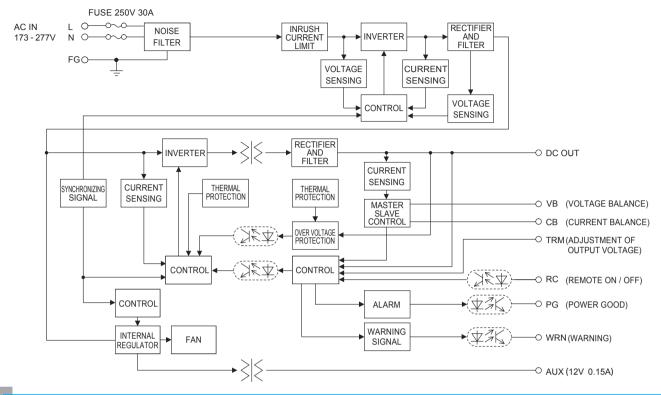


#### ●FETA7000ST-144

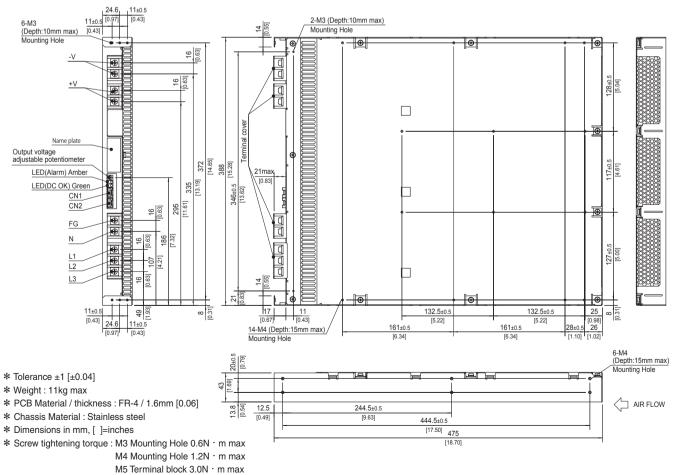


# COȘEL | FETA7000ST

#### Block diagram of internal module



#### External view

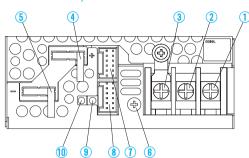


\* Please connect safety ground to FG terminal on the unit.

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#### **Terminal Blocks**

#### FETA2500BA, 3000BA

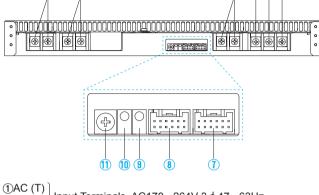


①AC (L) Input Terminals AC170 - 264V 1 ¢ 47 - 63Hz
②AC (N) (M4)
③Frame ground (M4 ±)
④+Output
⑤-Output
⑥Output voltage adjustable potentiometer
⑦CN1 ⑧CN2 Connectors

(a) LED for output voltage confirmation (DC\_OK)

0LED for fault condition detection (ALARM)

#### ● FETA7000T ⑥ ⑤ / /



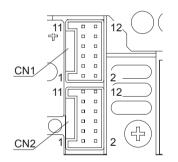
321

(4)

(DAC (T)) Input Terminals AC170 - 264V 3 \$\phi 47 - 63Hz\$
(AC (S)) (M5)
(

#### FETA2500BA, 3000BA

#### Pin Configuration and Functions of CN1, CN2

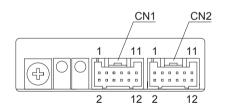


Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
2	AUX	Auxiliary power output
3	WRNG	Warning signal (GND)
4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance
12	CB	Current Balance

	Connector	Housing	Terminal	Mfr.
CN1	N1 S12B-PUDSS-1		Reel: SPUD-001T-P0.5	іст
CN2	512B-P0D55-1	PUDP-12V-5	or SPUD-002T-P0.5	J.S.I

#### FETA7000T

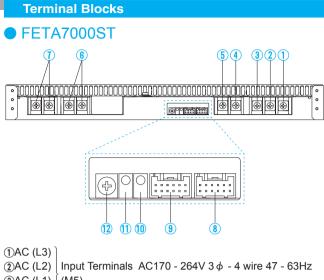
#### Pin Configuration and Functions of CN1, CN2



Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
2	AUX	Auxiliary power output
3	WRNG	Warning signal (GND)
4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance
12	СВ	Current Balance
	•	·

	Connector	Housing	Terminal	Mfr.	
CN1			Reel: SPUD-001T-P0.5	ют	
CN2	5128-P0055-1	PUDP-12V-S	PUDP-12V-S	or SPUD-002T-P0.5	J.S.I

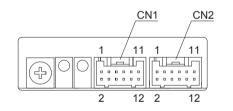
# **COȘEL** | FETA-series



(2) AC (L2) [Input Terminals AC170 - 264V 3 \$\phi\$ - 4 wire 47 - 63F
(3) AC (L1) [(M5)
(4) AC (N) ]
(5) Frame ground (M5 ±)
(6) +Output
(7) -Output
(8) CN2
(8) CN1 Connectors
(9) LED for output voltage confirmation (DC\_OK)
(10) LED for fault condition detection (ALARM)
(12) Output voltage adjustable potentionmeter

#### FETA7000ST

#### Pin Configuration and Functions of CN1, CN2



Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
2	AUX	Auxiliary power output
3	WRNG	Warning signal (GND)
4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance
12	CB	Current Balance

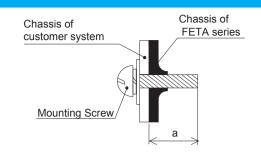
	Connector	Housing	Terminal	Mfr.
CN1 CN2	S12B-PUDSS-1	PUDP-12V-S	Reel: SPUD-001T-P0.5 or SPUD-002T-P0.5	J.S.T



#### **Assembling and Installation Method**

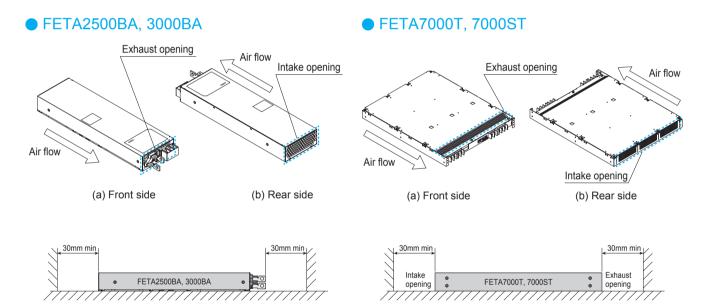
#### Installation Method

- Screw mounting requires considering the product weight for safety fixtures.
- To keep enough insulation distance between screws and internal components, length of the mounting screw should not exceed recommendation as shown in right figure.

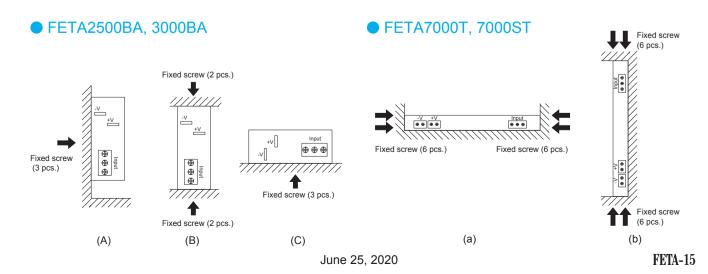


Model	Mounting hole	a (Max penetration length)				
FETA2500BA, 3000BA	Bottom	6mm max				
FE 1A23000A, 30000A	Side	4.5mm max				
FETA7000T, 7000ST	Side	15mm max				

- The power supplies have a built-in forced cooling fan. Do notblock ventilation at the suction side and its opposite side.
- \* Reverse airflow option (-F2) is available for FETA2500BA. Refer to Instruction manual.
- If you use a power supply in a dusty environment, it can cause a failure. Please consider taking such countermeasures as installing an air filter near the suction area of the system to prevent a failure.



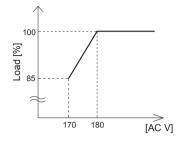
When mounting the power supply with screws, it is recommended that this be done as shown below. If other methods are used, be sure the weight of the power supply is taken into account.



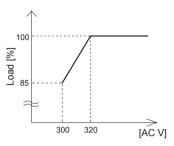
# **COȘEL** | FETA-series

#### Derating

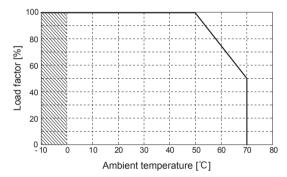
 Input Voltage Derating Curve FETA2500BA, 3000BA, 7000T



#### FETA7000ST

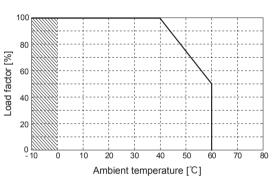


### Ambient Temperature Derating Curve FETA2500BA, FETA3000BA



Specifications for ripple and ripple noise changes in the shadedarea.

#### FETA7000T, FETA7000ST



#### **Instruction Manual**

♦ It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Instruction Manual Before using our product https://en.cosel.co.jp/product/powersupply/FETA/ https://en.cosel.co.jp/technical/caution/index.html







#### **Basic Characteristics Data**

	Circuit method	Switching frequency [kHz]	Input current [A]	Rated input fuse	Inrush current protection circuit	PCB/Pattern			Series/Parallel operation availability	
Model						Material	Single sided	Double sided	Series operation	Parallel operation
	Active filter	47	13.8	250V 30A	Relay	FR-4		Yes	Yes	Yes
FETA2500BA	Phase-shift Full-	94								
	bridge converter									
	Active filter	47		250V 30A	Relay	FR-4	Ye		Yes	Yes
FETA3000BA	Phase-shift Full-	94	16.6					Yes		
	bridge converter									
	Active filter	47			Relay	FR-4		Yes	Yes	Yes
FETA7000T	Phase-shift Full-	94	23.9	250V 30A						
	bridge converter	94								

\* The value of input current is at ACIN 200V and rated laod.

Mod	Madal	Circuit method	Switching frequency [kHz]	Input current [A]	Rated input fuse	Inrush current protection circuit	PCB/Pattern			Series/Parallel operation availability	
	woder						Material	Single sided	Double sided	Series operation	Parallel operation
FETA7000		Active filter	47	12.0	250V 30A	Relay	FR-4		Yes	Yes	Yes
	FETA7000ST	Phase-shift Full-	94								
		bridge converter	54								

\* The value of input current is at ACIN 400V and rated load.

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